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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/753,062	12/28/2000	Paul E. McKenney	BEA9-2000-0013-US1	9320
30011 75	590 05/05/2005		EXAMINER	
LIEBERMAN & BRANDSDORFER, LLC			HUYNH, KIM T	
12221 MCDONALD CHAPEL DRIVE GAITHERSBURG, MD 20878			ART UNIT	PAPER NUMBER
		•	2112	,
			DATEMAN ED ACIOCIDAD	-

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/753,062	MCKENNEY ET AL.			
Office Action Summary	Examiner	Art Unit			
	Kim T. Huynh	2112			
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with	the correspondence address			
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by stany reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	N). R 1.136(a). In no event, however, may a reply reply within the statutory minimum of thirty (3 riod will apply and will expire SIX (6) MONTH atute, cause the application to become ABAN	y be timely filed 30) days will be considered timely. S from the mailing date of this communication. DONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 0	7 February 2005.				
2a) This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-31</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-31</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction an	d/or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Exam	niner				
10)⊠ The drawing(s) filed on <u>28 December 2000</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
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Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority docum					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the p	•	ceived in this National Stage			
application from the International Bu	, , , , , , , , , , , , , , , , , , , ,				
* See the attached detailed Office action for a	list of the certified copies not re	ceived.			
Amadana and a					
Attachment(s) 1) Notice of References Cited (PTO-892)	A) []	omony (PTO 412)			
2) Notice of References Cited (PTO-692) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) [_] Interview Sun Paper No(s)/N	nmary (PTO-413) Mail Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB	/08) 5) 🔲 Notice of Info	rmal Patent Application (PTO-152)			
Paper No(s)/Mail Date <u>3/11/05</u> .	6)-[]-Other:				
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Offic	e Action Summary	Part of Paper No./Mail Date 20050424			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-31 are rejected under 35 U.S.C. 102(e) as being anticipated by Kermani (US Patent 6,163,831)

As per claims 1, 13 and 22, Kermani discloses a method for efficiently handling high contention locking in a multiprocessor computer system, comprising:

- organizing at least some of the processors(fig.9, 100-108, ie
 agents(processors) A and agents(processors) B) into a hierarchy;(col.4,
 lines 46-57, ie a priority level assigned to each of requesting agents)
- providing a lock selected from the group consisting of an interruptible
 lock, and a lock which waits using only local memory(fig.9, 200, shared
 memory); and (col.12, lines 1-15, ie arbiter 920 providing a lock selected
 from access requesting of agents 100-108)
- processing the lock responsive to the hierarchy. (col.12, lines 16-37, arbiter arbitrates ownership of share memory 200 based on a priority established)

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As per claims 2, 14, 25, Kermani discloses wherein the processing step conditionally acquires the lock. (col.11, lines 39-46)

As per claims 3, 15, 26, Kermani discloses wherein the processing step returns a failure to grant the lock if the lock is not immediately available. (col.8, lines 1-15, ie not acknowledge signals implies returns a failure)

As per claims 4, 16, 27, Kermani discloses wherein the processing step unconditionally acquires the lock. (col.5, lines 37-49, wherein without requiring the winning implies unconditionally)

As per claims 5, 17, 28, Kermani discloses wherein the processing step spins on the lock until the lock is available. (col.8, lines 16-24)

As per claims 6, 18, Kermani discloses the method further comprising allowing system interrupts while spinning on the lock. (col.11, line 55-col.12, line 15)

As per claims 7, 19, 29, Kermani discloses wherein the processing step unconditionally releases the lock. (col.12, lines 43-49)

As per claim 8, Kermani discloses wherein the processing step the processors spin on private memory. (col.12, lines 27-37)

As per claim 9, Kermani discloses wherein the hierarchy includes a data structure having a bit mask indicating which processors of a group are waiting for the lock. (col.8, lines 16-24)

As per claim 10, Kermani discloses wherein the hierarchy includes a data structure having a bit mask indicating which groups of processors have processors waiting for the lock. (col.8, lines 1-15, ie agents group A/B)

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As per claims 11, 20, 30, Kermani discloses the method further comprising maintaining a release flag for a group of processors to prevent races between acquisition and release of the lock.(col.6, lines 17-30)

As per claims 12, 21, 31, Kermani discloses the method further comprising maintaining a handoff flag for a group of processors to grant the lock to a processor requesting an unconditional lock from a processor requesting a conditional lock. (col.6, lines 5-16)

As per claim 23, Kermani wherein the medium is a recordable data storage medium. (col.12, lines 27-37, ie encoder 190)

As per claim 24, Kermani discloses wherein the medium is a modulated carrier signal. (col.11, lines 39-46, wherein signals to/from system have been modulated/demodulated as for communicating within system)

Response to Amendment

3. Applicant's amendment filed on 2/7/05 have been fully considered but are moot in view of the new ground(s) of rejection.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kim Huynh whose telephone number is (571)272-3635 or via e-mail addressed to [kim.huynh3@uspto.gov]. The examiner can normally be reached on M-F 9.00AM- 6:00PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached at (571)272-3632 or via e-mail addressed to [mark.Rinehart@uspto.gov].

The fax phone numbers for the organization where this application or proceeding is assigned are (703)872-9306 for regular communications and After Final communications. Any inquiry of a general

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nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571)272-2100.

Kim Huynh

TIM VO PRIMARY EXAMINER